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## Bis-Arg Helix #2

R1-Ala-Glu-Ala-Arg-Ala-Arg-Arg-Ala-Ala-Ala-Arg-Ala-Ala-Arg-Arg-Ala-Ala-Arg-Ala-C(0)OH

Arg Helix #2

#### Fig. 1A

## Tris-Arg Helix #3

Fig. 1E

### Tetra-Arg Helix #3

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R<sub>1</sub>,R<sub>2</sub>,R<sub>3</sub>, and R<sub>4</sub> may be either succinyl or acetyl.

Fig. 1C

Ala-Arg-Arg-Ala-Ala-Ala-Ala-Ala-Arg-Arg-Arg-Ala-Arg-Ala-Glu-Ala-R 4

H<sub>2</sub>N

# STRUCTURE OF TRIS-ARG HELIX #3 - CONSTRAINED SINGLE LETTER AMINO ACID ABREVIATIONS

(O) CRRAARAARRARAEA-Ac Ac-AEARARRAAARAARRA-C(0)-NaH-Lys-Lys-Pro-DAPA-Glu-C(0)-NH2  $(CH_2)_4$ (O)O-O- $(CH_2)_3$ SALT BRIDGE (CH<sub>2</sub>)<sub>4</sub>NeH Ac-AEARARRAARRA-C(0) (CH<sub>2</sub>)<sub>4</sub>NeH3

DAPA = 2, 3-DIAMINOPROPIONIC ACID ARG HELIX #3 = Ac-AEARARRAARAARRA-C(0) Fig. 2

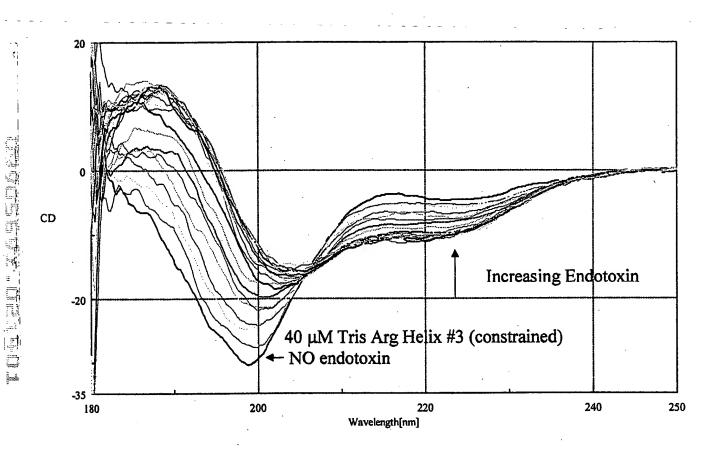


Fig. 3



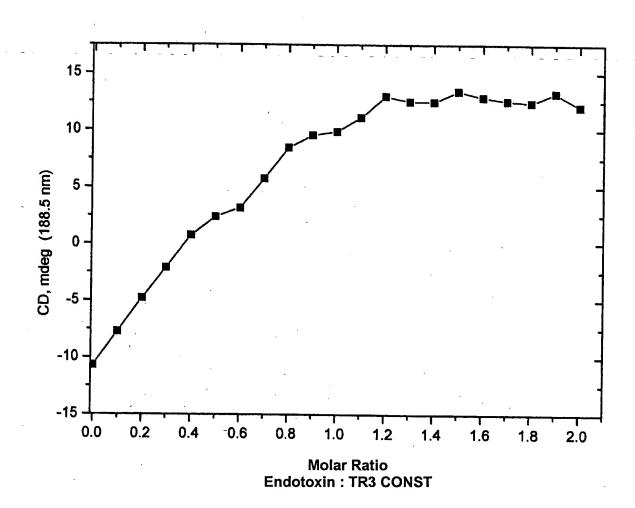


Fig. 4

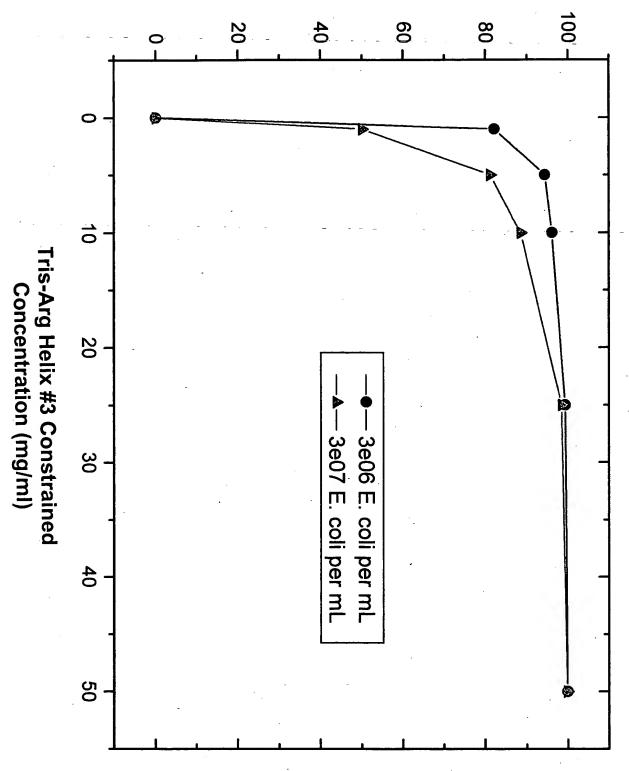


Fig. 5